Bridge metallocenes for olefine copolymerization

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The invention is directed to bridged metallocene catalyst complexes that are sufficiently soluble in aliphatic solvents to be particularly suitable for solution olefin polymerization processes such that olefin copolymers can be prepared with high molecular weights and catalyst activities particularly at high polymerization reaction temperatures. More specifically, the invention particularly relates to a polymerization process for ethylene copolymers having a density of about 0.850 to about 0.940 comprising contacting, under solution polymerization conditions at a reaction temperature at or above 60 DEG C to 250 DEG C, ethylene and one or more comonomers capable of insertion polymerization with a bridged metallocene catalyst complex derived from two ancillary ligands, each of which independently may be substituted or unsubstituted, wherein the ligands are bonded by a covalent bridge containing a substituted single Group 14 atom, the substitution on said Group 14 atom comprising aryl groups at leas one of which contains a hydrocarbylsilyl substituent; and B) an activating cocatalyst.